

Leading spindle lathes with feed gear for demanding users.

TU 2506V with brushless motor for continuously variable speed control

Facts that impress in terms of quality, performance and price

- ▶ Precision workmanship
- ▶ Powerful motor, low-maintenance motor
- ▶ Ribbed grey cast steel prism bed with strong ribbing, induction tempered and precision ground
- ▶ Tempered and polished z-axis guideway
- ▶ Guaranteed concentricity of spindle nose better than 0.009 mm
- ▶ Automatic longitudinal/leading spindle drive
- ▶ Roll-milled trapezoidal spindles
- ▶ Chip guard on top slide
- ▶ Top slide displaceable on cross slide
- ▶ Leading spindle for thread tapping or automatic longitudinal turning
- ▶ Quadruple tool holder
- ▶ All guides adjustable using cleats
- ▶ Concentricity at chuck better than 0.04 mm
- ▶ Right-handed/left-handed rotation switchable via control panel
- ▶ Tempered main spindle borne on adjustable precision taper roller bearings
- ▶ Tapered roller bearings in P5 quality
- ▶ Tempered spindle nose with Ø 26 mm spindle bore
- ▶ Tailstock adjustable ± 5 mm for turning spheres
- ▶ Tailstock spindle sleeve and handwheel with adjustable fine scaling 0.02 mm
- ▶ Fast, easy adjustment of the tailstock without tools thanks to clamping lever
- ▶ Leading spindle borne on two sintered bearings
- ▶ Handwheels on slide with adjustable fine scaling 0.04 / 0.01 mm
- ▶ Thrust bearings
- ▶ Emergency stop button
- ▶ Three-jaw lathe chuck included in standard scope of delivery
- ▶ Interchangeable gears in standard scope of delivery for thread tapping
- ▶ Fully equipped; the user can immediately start productive work after commissioning

TU 2506 V

- ▶ Smooth action, powerful, brushless DC drive with excellent control characteristics
- ▶ High-precision steel chuck for higher speeds
- ▶ Speed change easily adjustable via potentiometer
- ▶ Digital speed display

TU 2506V Powerful brushless drive



- › Particularly smooth action
- › Virtually constant torque over the entire speed range
- › Extremely powerful

Accessories

Machine chassis

Art. no. 3440409

Vibration dampers machine base SE 1

(6 pcs. needed)

Art. no. 3381012

Levelling platen SE 55

(6 pcs. needed)

Art. no. 3352981

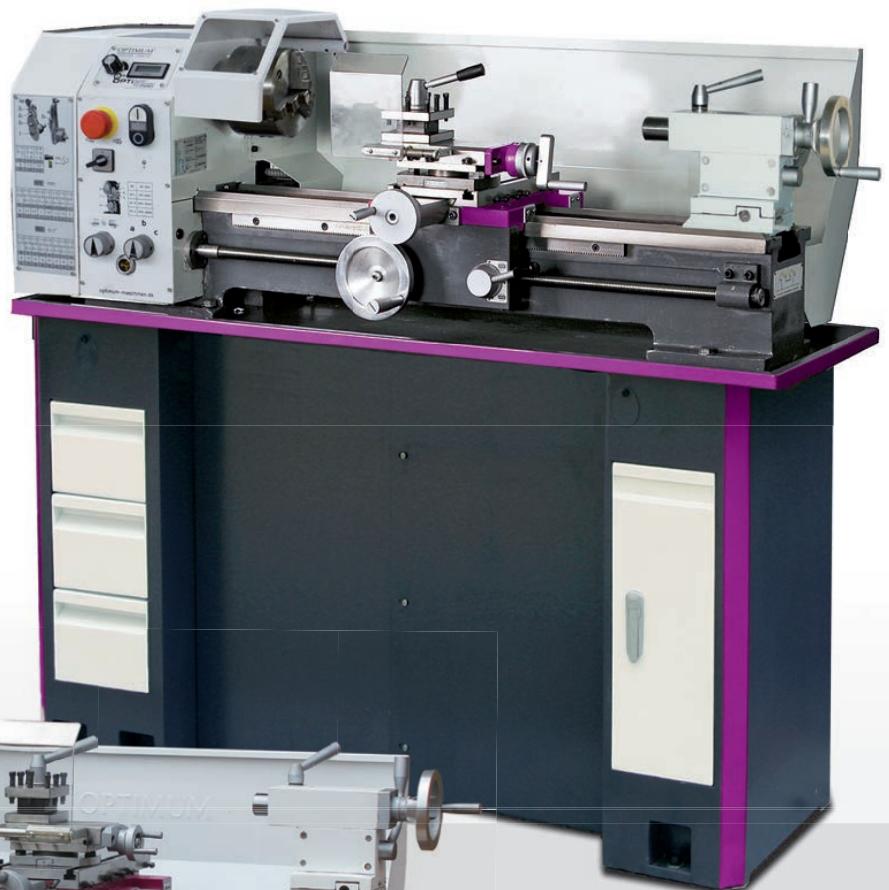


Fig.: TU 2506V

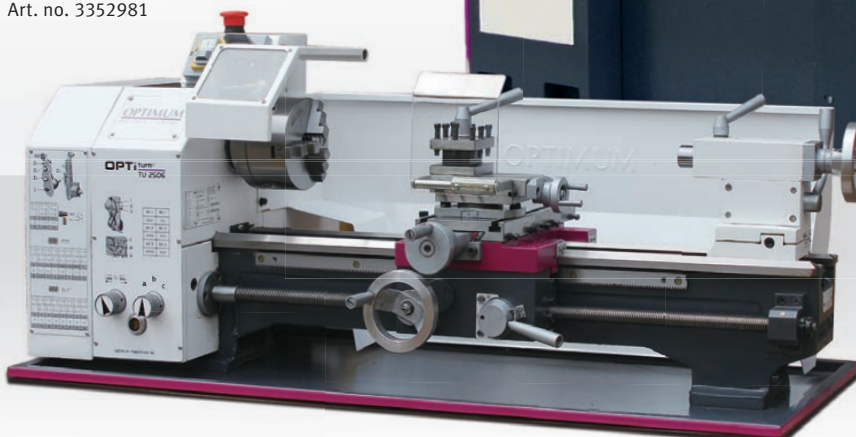


Fig.: TU 2506

Technical specifications, accessories and dimensions

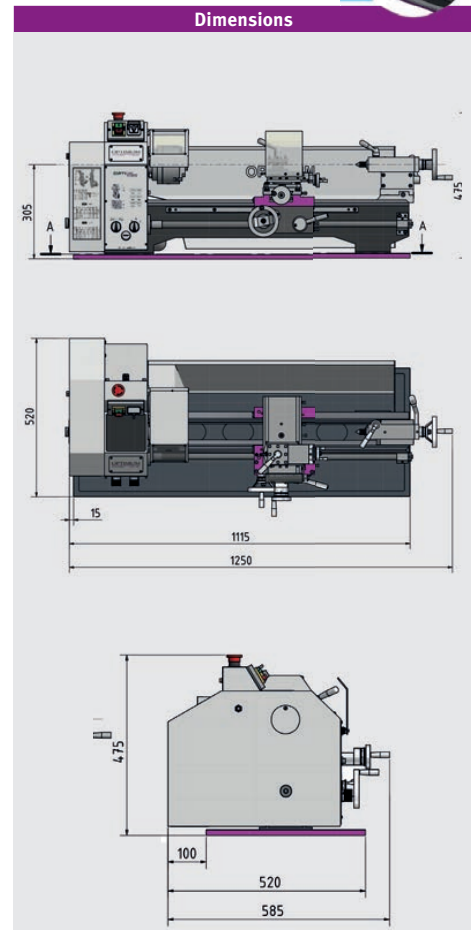
| Model | TU 2506 | TU 2506V* |
|---------------------------------------|--|----------------------------|
| Article no. (230 V) | 3425001 | 3425006 |
| Article no. (400 V) | 3425003 | |
| Technical specifications | | |
| Electrical connection | 230 V / 1 Ph ~ 50 Hz 400 V / 3 Ph ~ 50 Hz | 230 V / 1 Ph ~ 50 Hz |
| Drive motor | 750 W | 1.5 kW |
| Spindle | | |
| Spindle taper | MT 4 | |
| Spindle seat | Short taper | |
| Spindle bore, bar passage diameter | Ø 26 mm | |
| Quadruple tool holder mounting height | max. 13 mm | |
| Work area | | |
| Centre height | 125 mm | |
| Centre width | 550 mm | |
| Swing Ø over machine bed | 250 mm | |
| Bed width | 135 mm | |
| Speed range | | |
| Spindle speed | 125 - 2 000 rpm | 30 - 4 000 rpm 4 speeds |
| Number of speeds | 6 speeds | Electronically controlled |
| Travel | | |
| Top slide travel | 70 mm | |
| Cross slide travel | 110 mm | |
| Feeds and pitches | | |
| Longitudinal feed within the range | 0.07 - 0.4 mm/rev (6 feeds) | |
| Pitch - metric in range | 0.2 - 4 mm/rev (21 pitches) | |
| Pitch - inch in range | 56 - 8 turns/inch (21 pitches) | |
| Tailstock | | |
| Tailstock seat | MT 2 | |
| Tailstock quill diameter/stroke | 30 mm / 65 mm | |
| Dimensions | | |
| Length x width x height | 1 250 x 585 x 475 mm | 1 250 x 650 x 420 mm |
| Weight | 125 kg | |

| Lathe chucks and accessories | Art no. |
|--|---------|
| Four-jaw lathe chuck Ø 125 mm, individual clamping (Chuck flange 3441312 required) | 3442874 |
| Four-jaw lathe chuck Ø 125 mm, centre clamping (Chuck flange 3441312 required) | 3442812 |
| Chuck flange lathe chuck Ø 125 mm (lathe chuck 3442874/3442812) | 3441312 |
| Planar clamping disc Ø 240 mm | 3441352 |
| › Information about lathe chucks from page 184 | |


| Accessories | Art no. |
|--|---------|
| Steady rest passageway max. Ø 50 mm | 3441315 |
| Follow rest passageway max. Ø 34 mm | 3441310 |
| Quick change tool holder SWH 1-A | 3384301 |
| Factory assembly SWH 1-A | 9000401 |
| Spare tool holder 20 x 90 type D for square chisels | 3384302 |
| Spare tool holder 20 x 85 type H for round chisels | 3384321 |
| Lathe tool set 10 mm, 11-part (see page 189) | 3441602 |
| Lathe tool set 12 mm, 11-part (see page 189) | 3441603 |
| Lathe tool set 12 mm, 5-part "Made in Germany" | 3441212 |
| Collet kit ER 32, 3 - 20 mm | 3441122 |
| Collet chuck ER 25, cylindrical | 3441305 |
| Collet chuck ER 32, short taper | 3441306 |
| › More accessories for lathes from page 188 | |

*Important information on transport surcharges and „General notes on operating our machines“ on page 253

**The lathe (frequency converter) complies with the DIN EN 55011 standard: class C3 - Note for operation with frequency converter on page 253



| Scope of supply |
|-----------------------------------|
| › Three-jaw lathe chuck Ø 125 mm, |
| › Centre clamping |
| › Fixed centre MT 2 and MT 4 |
| › Splashguard |
| › Chip tray |
| › HSS lathe tools |
| › Quadruple tool holder |
| › Replaceable gear set |
| › Operating tool |

| Accessories | Art no. |
|---|---------|
|  | |
| Digital position display DRO 5 incl. 3 magnetic sensors | 3383975 |
| Magnetic strip length 1 100 mm | 3383978 |
| Factory assembly | 9000420 |
| › Information about position display on page 252 | |